

CLAIM LISTING

Claims 1-9 (Cancelled)

Claim 10 (Currently Amended): A method of producing active factors comprising the steps of:

- (a) applying undifferentiated mammalian cells on a substrate;
- (b) contacting the undifferentiated mammalian cells with a culture medium ~~for a sufficient time to produce a matrix;~~
- (c) inducing the undifferentiated mammalian cells to differentiate by one or more inductors of differentiation, wherein differentiated cells produce active factors, and ~~contacting the cells with the culture medium for a sufficient time to produce active factors;~~
- (d) ~~removing the substrate and the matrix from the culture medium; and~~
- (e) recovering the active factors from the culture medium.

Claims 11-12 (Cancelled)

Claim 13 (Previously Presented): The method of claim 10, wherein the active factors comprise growth factors.

Claim 14 (Previously Presented): The method of claim 13, wherein the growth factors are selected from the group consisting of bone formation factors, cell proliferation factors and cell adhesion factors.

Claim 15 (Cancelled)

Claim 16 (Previously Presented): The method of claim 10, wherein the undifferentiated mammalian cells comprise bone marrow cells.

Claim 17 (Previously Presented): The method of claim 16, wherein the bone marrow cells comprise stromal cells.

Claim 18 (Previously Presented): The method of claim 10, wherein the undifferentiated mammalian cells comprise autologous cells.

Claim 19 (Cancelled)

Claim 20 (Currently Amended): A method of producing bone growth factors comprising the steps of:

- (a) applying bone marrow cells on a substrate;
- (b) contacting the bone marrow cells with a culture medium ~~for a sufficient time to produce bone growth factors; and~~
- (c) inducing the bone marrow cells to differentiate by one or more inductors of differentiation, wherein differentiated cells produce bone growth factors removing the substrate and the cells from the culture medium; and
- (d) recovering the bone growth factors from the culture medium.

Claim 21 (Previously Presented): the method according to claim 20, wherein the bone marrow cells comprise stromal cells.

Claim 22 (Previously Presented): The method according to claim 20, wherein the bone marrow cells comprise autologous bone marrow cells.

Claim 23 (Previously Presented): The method according to claim 20, wherein the bone growth factors are selected from the group consisting of bone formation factors, bone cell proliferation factors and bone cell adhesion factors.

Claim 24 (Cancelled)

Claim 25 (Currently Amended): A method of producing growth factors comprising the steps of:

- (a) applying stromal cells on a substrate;
- (b) contacting the stromal cells with a culture medium ~~for a sufficient time to produce growth factors;~~
- (c) inducing the stromal cells to differentiate by one or more inductors of differentiation, wherein differentiated cells produce growth factors ~~removing the substrate and the cells from the culture medium;~~ and
- (d) recovering the growth factors from the culture medium.

Claim 26 (Previously Presented): The method of claim 25, wherein the stromal cells comprise autologous stromal cells.

Claim 27 (Cancelled)

Claim 28 (Previously Presented): The method of claim 25, wherein the growth factors are selected from the group consisting of bone formation factors, cell proliferation factors and cell adhesion factors.